

## NEW PRODUCT

Available from the First Half 2020



Unit listed on  
www.eurovent-certification.com



ErP compliant

## SPINchiller<sup>4</sup>

**Water chiller**  
Air cooled  
Outdoor installation  
**Capacity from 216 to 633 kW**

The **SPINchiller<sup>4</sup>** liquid chillers are high efficiency packaged units with ecological refrigerant R32 for medium and big-sized applications in the services sector. Designed for outdoor installation, they ensure the highest energy efficiency over the entire operating cycle, especially under load staging conditions that coincide with the unit's longer operating time, **thanks to the modular scroll technology** that adapts the capacity supplied to the actual energy demand required by the system.

- **DUAL ENERGY VERSION** The standard EXCELLENCE version with a class A Eurovent rating offers the highest energy efficiency both during the seasonal cycle and under full load conditions. The PREMIUM version also provides excellent performance under partial load conditions, but has a compact design which gives it an additional competitive edge.
- **HIGH UNIT RELIABILITY**, thanks to the double refrigerant circuit, to the proven architecture and to the components produced at high volumes.
- **MODULARITY AND MANAGEMENT OF MORE UNITS IN CASCADE:** The compact construction allows to combine multiple units in confined spaces, realizing a high power system. The control allows to coordinate up to 7 units managing automatically the operation with maximum efficiency.

## functions and features



Cooling only  
(WSAT-XSC3)



Air cooled



Outdoor  
installation



R-32



Hermetic Scroll

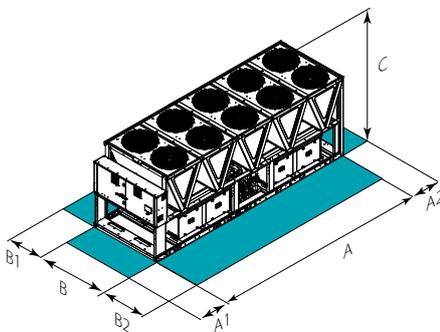


HydroPack



Electronic  
expansion valve

## dimensions and clearances



SIZE – WSAT-YSC4		80.3	100.4	115.4	140.4	155.5	175.5	190.5	210.6	225.6	240.6
SC-EXC	A - Length	mm 2930	2930	4180	4180	5430	5430	5430	6680	6680	6680
SC-EXC	B - Width	mm 2246	2246	2246	2246	2246	2246	2246	2246	2246	2246
SC-EXC	C - Height	mm 2540	2540	2540	2540	2540	2540	2540	2540	2540	2540
SC-EXC	A1	mm 1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
SC-EXC	A2	mm 700	700	700	700	700	700	700	700	700	700
SC-EXC	B1	mm 1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-EXC	B2	mm 2250	2250	2250	2250	2250	2250	2250	2250	2250	2250

SIZE – WSAT-YSC4		90.3	110.4	130.4	145.4	170.5	185.5	210.6	225.6	240.6
SC-PRM	A - Length	mm 2930	2930	2930	4180	4180	4180	5430	5430	5430
SC-PRM	B - Width	mm 2246	2246	2246	2246	2246	2246	2246	2246	2246
SC-PRM	C - Height	mm 2540	2540	2540	2540	2540	2540	2540	2540	2540
SC-PRM	A1	mm 1500	1500	1500	1500	1500	1500	1500	1500	1500
SC-PRM	A2	mm 700	700	700	700	700	700	700	700	700
SC-PRM	B1	mm 1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-PRM	B2	mm 2250	2250	2250	2250	2250	2250	2250	2250	2250

The above mentioned data are referred to standard units for the constructive configurations indicated. For all the other configurations, refer to the relative Technical Bulletin.

SC-EXC Compressors soundproofing (SC)-Excellence  
SC-PRM Compressors soundproofing (SC)-Premium

PRELIMINARY DATA

CAUTION! For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

## versions and configurations

### VERSION:

- EXC** Excellence (Standard)  
**PRM** Premium

### ENERGY RECOVERY:

- Energy recovery: not required (Standard)  
**D** Partial energy recovery  
**R** Total energy recovery

### ACOUSTIC CONFIGURATION:

- ST** Standard acoustic configuration (Standard)  
**SC** Acoustic configuration with compressor soundproofing

### EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

- CREFB** Device for fan consumption reduction of the external section, ECOBREEZE type (Standard)

## technical data

SIZE – WSAT-YSC4			80.3	100.4	115.4	140.4	155.5	175.5	190.5	210.6	225.6	240.6
SC-EXC	▶ Cooling capacity (EN14511:2018)	(1) kW	216	255	299	345	408	450	490	550	594	633
SC-EXC	Total power input (EN14511:2018)	(1) kW	68,2	85,2	98,0	111	132	147	162	183	196	214
SC-EXC	EER (EN14511:2018)	(1) -	3,17	2,99	3,06	3,11	3,08	3,07	3,02	3,00	3,03	2,95
SC-EXC	SEER	-	4,17	4,21	4,40	4,34	4,56	4,59	4,55	4,56	4,58	4,63
SC-EXC	Refrigeration circuits	Nr	2									
SC-EXC	No. of compressors	Nr	3	4				5			6	
SC-EXC	Type of compressors	(2) -	SCROLL									
SC-EXC	Standard power supply	V	400/3~/50									
SC-EXC	Sound pressure level	(3) dB(A)	70	71	72	73	74	74	74	75	75	76
SC-EXC	Sound pressure level	(3) dB(A)	68	68	69	70	71	71	72	72	73	73
SIZE – WSAT-YSC4			90.3	110.4	130.4	145.4	170.5	185.5	210.6	225.6	240.6	
SC-PRM	▶ Cooling capacity (EN14511:2018)	(1) kW	225	276	319	366	431	463	522	572	607	
SC-PRM	Total power input (EN14511:2018)	(1) kW	82,4	97,7	122	133	155	173	195	206	224	
SC-PRM	EER (EN14511:2018)	(1) -	2,73	2,83	2,62	2,75	2,78	2,68	2,67	2,78	2,71	
SC-PRM	SEER	-	4,13	4,16	4,21	4,12	4,21	4,27	4,32	4,32	4,32	
SC-PRM	Refrigeration circuits	Nr	2									
SC-PRM	No. of compressors	Nr	3	4				5			6	
SC-PRM	Type of compressors	(2) -	SCROLL									
SC-PRM	Standard power supply	V	400/3~/50									
SC-PRM	Sound pressure level	(3) dB(A)	71	72	73	74	75	75	75	76	76	
SC-PRM	Sound pressure level	(3) dB(A)	69	70	71	71	72	72	73	73	74	

- (1) Data calculated in compliance with Standard EN 14511:2018 referred to the following conditions: Internal exchanger water temperature = 12/7°C; Entering external exchanger air temperature = 35°C  
(2) SCROLL = Scroll compressor  
(3) Sound levels refer to full load units, in test nominal conditions. The sound pressure level refers to 1 m. from the standard unit outer surface operating in open field. Measurements are carried out according to the UNI EN ISO 9614-2 standard, in compliance with the EUROVENT 8/1 certification. Data refer to the following conditions: internal water exchanger = 12/7 °C; outdoor air temperature 35°C

- ST-EXC Acoustic standard configuratio (ST)-Excellence  
ST-PRM Acoustic standard configuration (ST)-Premium

- SC-EXC Compressors soundproofing (SC)-Excellence  
SC-PRM Compressors soundproofing (SC)-Premium

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 811/2013 (rated heat output ≤70 kW at specified reference conditions), the Commission delegated Regulation (EU) No 813/2013 (rated heat output ≤400 kW at specified reference conditions) and the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

PRELIMINARY DATA

## accessories

<b>1PM</b>	Hydropack with 1 pump	<b>ECS</b>	ECOSHARE function for the automatic management of a group of units
<b>1PMV</b>	Hydropack user side with nr.1 inverter pump	<b>PFCP</b>	Power factor correction capacitors (cosfi > 0.9)
<b>1PMH</b>	Hydropack with nr.1 high static pressure pump	<b>SFSTR</b>	Disposal for inrush current reduction
<b>1PMVH</b>	Hydropack user side with nr.1 high static pressure inverter pump	<b>RE-20</b>	Electrical panel antifreeze protection for min. outdoor temperature down to -20°C
<b>2PM</b>	Hydropack user side with 2 pumps	<b>RE-25</b>	Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
<b>2PMV</b>	Hydropack user side with no.2 of inverter pumps	<b>RE-30</b>	Electrical panel antifreeze protection for min. outdoor temperature down to -30°C
<b>2PMH</b>	Hydropack user side with nr.2 high static pressure pump	<b>RE-35</b>	Electrical panel antifreeze protection for min. outdoor temperature down to -35°C
<b>2PMVH</b>	Hydropack user side with nr.2 high static pressure inverter pump	<b>RE-39</b>	Electrical panel antifreeze protection for min. outdoor temperature down to -39°C
<b>IVFDT</b>	Inverter driven variable flow-rate user side control depending on the temperature differential	<b>MHP</b>	High and low pressure gauges
✓ <b>IFWX</b>	Steel mesh strainer on the water side	<b>SDV</b>	Cutoff valve on compressor supply and return
✓ <b>CSVX</b>	Couple of manually operated shut-off valves	<b>A900</b>	900 l. storage tank
<b>A550</b>	550 l. storage tank	<b>PM</b>	Phase monitor
<b>A700</b>	700 l. storage tank	<b>MF2</b>	Multi-function phase monitor
✓ <b>AMMX</b>	Spring antivibration mounts	<b>CCME</b>	E-coated microchannel coil
<b>CONTA2</b>	Energy meter	✓ <b>AMMSX</b>	Spring antivibration mounts
✓ <b>RCMRX</b>	Remote control via microprocessor control	<b>RPRI</b>	Refrigerant leak detector in the casing
✓ <b>PSX</b>	Mains power supply	<b>PPBM</b>	Microchannel coils protection panels
<b>CMSC10</b>	Serial communication module for LonWorks supervisor	<b>PGCC</b>	Finned coil protection grilles and compressor compartment
<b>CMSC9</b>	Serial communication module for Modbus supervisor	<b>EVFTP</b>	Shell and tube evaporator
<b>CMSC11</b>	Serial communication module for BACnet-IP supervisor		
<b>SCP4</b>	Set-point compensation with 0-10 V signal		
<b>SPC2</b>	Set-point compensation with outdoor air temperature probe		

### Key to symbols and notes

✓ Accessories separately supplied.

For compatibility between the various accessories, please refer to the dedicated Technical Bulletin or our website in the Systems and Products section.